



VERY LOW CAPACITANCE ESD PROTECTION

Voltage

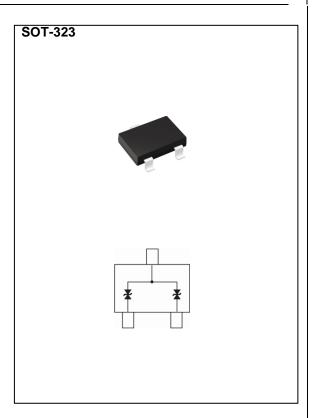
5 V

Features

- IEC61000-4-2(ESD): ±15kV Air, ±8kV Contact Compliance with the capability up to ±30kV
- IEC61000-4-4(EFT): 40A(5/50ns)
- IEC61000-4-5(Lightning): 3.5A(8/20uS)
- Low clamping voltage
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

Mechanical Data

- Case: Molded plastic, SOT-323
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.0002 ounces, 0.005 grams



Maximum Ratings and Thermal Characteristics (T_A=25 °C unless otherwise noted)

PARAMETER	SYMBOL	LIMIT	UNITS	
ESD IEC61000-4-2(Air)	V	±30	kV	
ESD IEC61000-4-2(Contact)	V _{ESD}	±30		
Typical Thermal Resistance	R _{θJA} ⁽¹⁾	540	°C/W	
Operating Junction Temperature Range	TJ	-55~150	°C	
Storage Temperature Range	T _{STG}	-55~150	°C	





Electrical Characteristics (T_A=25 °C unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS	
Reverse Stand-Off Voltage	V _{RWM} (2)	-	-	-	5	V	
Snap-Break Voltage	V_{SB}	I _{SB} =50mA	5	-	8	V	
Reverse leakage current	I _R	V _R =5.0V	-	-	0.1	μА	
Clamping Voltage	V _{CL}	I _{PP} =1A, t _P =8/20μs	-	-	9	V	
		I _{PP} =3.5A, t _P =8/20μs	-	-	12.5		
Clamping Voltage TLP	V _{CL} (3)	I _{PP} =8A, t _P =100ns	-	8.6	-	V	
		I _{PP} =16A, t _P =100ns	-	9.7	-		
Dynamic Resistance	R _{DYN}	t _P =100ns	-	0.27	-	Ω	
Off State Junction Capacitance	CJ	0Vdc Bias f=1MHz	-	-	6	pF	

NOTES:

- 1. Mounted on a FR4 PCB, Single-sided copper, mini pad.
- 2. A transient suppressor is selected according to the working peak reverse voltage(V_{RWM}), which should be equal to or greater than the DC or continuous peak operation voltage level.
- 3. Testing using Transmission Line Pulse (TLP) conditions: $Z0 = 50 \Omega$, $t_P = 100 \text{ ns}$.





TYPICAL CHARACTERISTIC CURVES

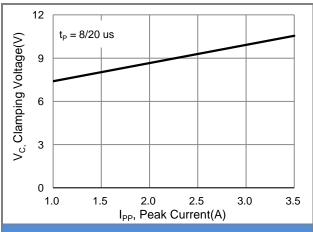


Fig.1 Typical Peak Clamping Voltage

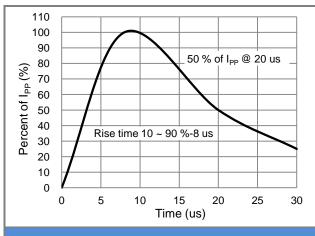


Fig.2 Pulse Waveform

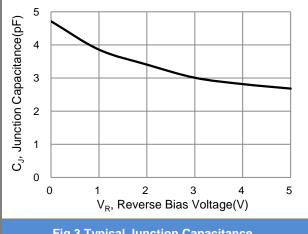
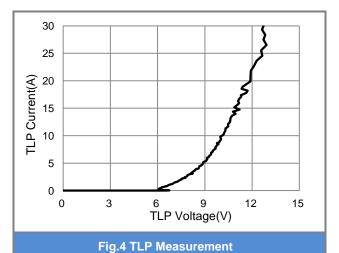


Fig.3 Typical Junction Capacitance



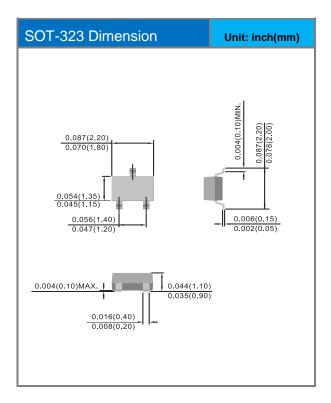


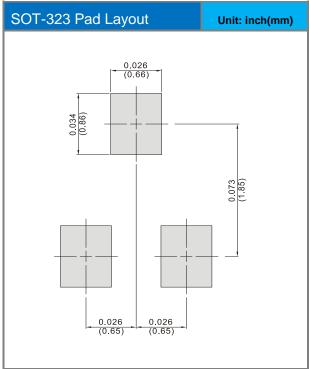


Part No Packing Code Version

Part No Packing Code	Package Type	Packing Type	Marking	Version
PEC2605C2C_R1_00001	SOT-323	3K / 7" Reel	22C	Halogen Free

Packaging Information & Mounting Pad Layout





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